



Release Notes for the Cisco Mobile Wireless Transport Manager 6.1.6

Date: May, 2011

These release notes describe features added, caveats, known bugs, and other important information for installing and using Cisco Mobile Wireless Transport Manager (MWTM) 6.1.6.



Note

You can access the most current Cisco documentation, including these release notes, online at: http://www.cisco.com/en/US/products/ps6472/tsd_products_support_series_home.html.

For the latest MWTM information and software updates, go to <http://www.cisco.com/go/mwtm>.

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What's New in MWTM 6.1.6

Table 1 lists the new features in MWTM 6.1.6.

Table 1 *New Features in Mobile Wireless Transport Manager 6.1.6*

Feature	Description
New Device Support	<ul style="list-style-type: none"> • Cisco Cell Site Router: 15.0(2)MR (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.3.1) • MToP 7600 : 12.2(33)SRE3, 15.0(1)S, 15.0(1)S1, 15.1(1)S, and 15.1(2)S • Cisco Mobile Internet (7600): 12.2(33)SRE3, 15.0(1)S, 15.0(1)S1, 15.1(1)S, and 15.1(2)S • Cisco GGSN 10.x on the WS-SVC-SAMI-BB-K9 module: 12.4(24)YE1, 12.4(24)YE2 • Cisco CSG2 R6 (SAMI) : 12.4(24)MDB • Cisco ITP Device: 12.2(33)IRE, 12.2(33)IRE1, 12.2(33)IRE2, 12.2(33)IRF, 12.2(33)IRG • Cisco PDSN Device: 12.4(22)XR3 • Cisco PDNGW Device: 12.4(24)T3c (LTE R1.3) • Cisco SGW Device: 12.4(24)T3c (LTE R1.3) • Cisco SPGW Device: 12.4(24)T4a (LTE R2.0)

Supported IOS Releases in MWTM 6.1.6

This section contains the following tables:

- [Table 2, Supported IOS Releases for ITP Devices](#)
- [Table 3, Supported IOS Releases for IPRAN Devices](#)
- [Table 4, Supported IOS Releases for mSEF Devices](#)

Table 2 **Supported IOS Releases for ITP Devices**

Device	IOS Release
Other ¹	12.2(25)SW4A 12.2(25)SW5 12.2(25)SW6 12.2(25)SW7 12.2(25)SW8 12.2(25)SW9 12.2(25)SW10 12.2(25)SW11 12.2(25)SW12 12.4(11)SW3 12.4(15)SW 12.4(15)SW1 12.4(15)SW2 12.4(15)SW3 12.4(15)SW4 12.4(15)SW5 12.2(33)IRA (for the WS-SVC-SAMI-BB-K9 module only) 12.2(33)IRB (for the WS-SVC-SAMI-BB-K9 module only) 12.2(33)IRC (for the WS-SVC-SAMI-BB-K9 module only) 12.2(33)IRD (for the WS-SVC-SAMI-BB-K9 module only) 12.2(33)IRE (for the WS-SVC-SAMI-BB-K9 module only) 12.2(33)IRE1 (for the WS-SVC-SAMI-BB-K9 module only) 12.2(33)IRE2 (for the WS-SVC-SAMI-BB-K9 module only) 12.2(33)IRF (for the WS-SVC-SAMI-BB-K9 module only) 12.2(33)IRG (for the WS-SVC-SAMI-BB-K9 module only)
GTT Encoding Scheme Support	12.2(25)SW4A or later 12.2(33)IRA or later is required.
MLR Address Table Configuration Support	12.2(25)SW4A or later 12.2(33)IRA or later is required.
For the GTT Accounting Statistics Reports	12.2(25)SW4A or later 12.2(33)IRA or later is required.
For Route Table and GTT Table Deployment	12.2(25)SW4A or later 12.2(33)IRA or later is required.
For ITP Provisioning	12.2(25)SW4A or later 12.2(33)IRA or later is required

Table 2 **Supported IOS Releases for ITP Devices (continued)**

Device	IOS Release
For MSU Routers	12.2(25)SW7 or later 12.2(33)IRA or later is required.
Cisco Database for Telecommunications (CDT)	2.0 ²

1. "Other" may include: Cisco 2650, Cisco 2651, Cisco 2811, Cisco 7204, Cisco 7206, Cisco 7301, Cisco 7507, and Cisco 7513.
2. CDT software release, not an IOS release.

Table 3 Supported IOS Releases for IPRAN Devices

Device	IOS Release
Cell Site Router	12.4(12)MR2 (MWR-1941-DC-A only) 12.4(16)MR (MWR-1941-DC-A only) 12.4(16)MR1 (MWR-1941-DC-A and 3825) 12.4(16)MR2 (MWR-1941-DC-A and 3825) 12.4(19)MR (MWR-1941-DC-A and 3825) 12.4(19)MR2 (MWR-2941-DC-A only) 12.4(19)MR3 (MWR-2941-DC-A only) (CSR 3.0) 12.4(20)MR (MWR-2941-DC only) (CSR 3.1) 12.4(20)MR1 (MWR-2941-DC only) (CSR 3.1.1) 12.4(20)MR2 (MWR-2941-DC only) (CSR 3.1.2) 12.2(33)MRA (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.2) 12.2(33)MRA1 (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.2.0.1) 12.2(33)MRB (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.2.1) 12.2(33)MRB1 (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.2.1.1) 12.2(33)MRB2 (MWR-2941-DC and MWR-2941-DC-A only) 12.2(33)MRB3 (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.2.1.3) 15.0(1)MR (MWR-2941-DC and MWR-2941-DC-A only) 15.0(2)MR (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.3.1)
RAN-O ONS	7.2 7.2.2 7.2.3

Table 3 **Supported IOS Releases for IPRAN Devices (continued)**

Device	IOS Release
RAN-O ONS-RAN-SVC	12.2(29)SM
	12.2(29)SM1
	12.2(29)SM2
	12.2(29)SM3
	12.2(29)SM4
	12.2(29)SM5
MToP 7600	12.2(33)SRD
	12.2(33)SRD1
	12.2(33)SRD2
	12.2(33)SRD3
	12.2(33)SRD4
	12.2(33)SRE0a
	12.2(33)SRE1
	12.2(33)SRE2
	12.2(33)SRE3
	15.0(1)S
	15.0(1)S1
	15.1(1)S
	15.1(2)S

Table 4 Supported IOS Releases for mSEF Devices

Device	IOS Release
GGSN	<p>GGSN 10.x on the WS-SVC-SAMI-BB-K9 module</p> <ul style="list-style-type: none"> • 12.4(24)YE • 12.4(24)YE1 • 12.4(24)YE2 <p>GGSN 9.x on the WS-SVC-SAMI-BB-K9 module</p> <ul style="list-style-type: none"> • 12.4(22)YE • 12.4(22)YE1 • 12.4(22)YE2 • 12.4(22)YE3 • 12.4(22)YE4 <p>GGSN 8 on the WS-SVC-SAMI-BB-K9 module:</p> <ul style="list-style-type: none"> • 12.4(15)XQ • 12.4(15)XQ1 • 12.4(15)XQ2 • 12.4(15)XQ3 • 12.4(15)XQ4 <p>GGSN 7 on the WS-SVC-MWAM-1 module:</p> <ul style="list-style-type: none"> • 12.4(9)XG2 • 12.4(9)XG3 • 12.4(9)XG4 • 12.4(9)XG5 <p>GGSN 6 on the WS-SVC-MWAM-1 module:</p> <ul style="list-style-type: none"> • 12.4(2)XB7 • 12.4(2)XB8 • 12.4(2)XB9 • 12.4(2)XB10

Table 4 **Supported IOS Releases for mSEF Devices (continued)**

Device	IOS Release
GGSN (continued)	Supervisor Module: <ul style="list-style-type: none"> • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2 • 12.2(33)SRD3 • 12.2(33)SRD4 • 12.2(33)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S • 15.0(1)S1 • 15.1(1)S
CSG1	CSG1 7: <ul style="list-style-type: none"> • 3.1(3)C7(1) • 3.1(3)C7(2) • 3.1(3)C7(3) • 3.1(3)C7(4) • 3.1(3)C7(5) • 3.1(3)C7(6) • 3.1(3)C7(7) CSG1 6: <ul style="list-style-type: none"> • 3.1(3)C6(6) • 3.1(3)C6(7) • 3.1(3)C6(8) • 3.1(3)C6(9) • 3.1(3)C6(10)

Table 4 Supported IOS Releases for mSEF Devices (continued)

Device	IOS Release
CSG2	CSG2 R6: <ul style="list-style-type: none"> • 12.4(24)MDB CSG2 R5: <ul style="list-style-type: none"> • 12.4(24)MDA CSG2 R4: <ul style="list-style-type: none"> • 12.4(24)MD1 • 12.4(24)MD2 CSG2 R3.5 <ul style="list-style-type: none"> • 12.4(22)MDA • 12.4(22)MDA1 • 12.4(22)MDA2 • 12.4(22)MDA3 • 12.4(22)MDA4 • 12.4(22)MDA5 • 12.4(22)MDA6 CSG2 R3: <ul style="list-style-type: none"> • 12.4(22)MD • 12.4(22)MD1 CSG2 R2: <ul style="list-style-type: none"> • 12.4(15)MD • 12.4(15)MD1 • 12.4(15)MD2 • 12.4(15)MD3 • 12.4(15)MD4 CSG2 R1: <ul style="list-style-type: none"> • 12.4(11)MD3 • 12.4(11)MD4 • 12.4(11)MD5 • 12.4(11)MD6 • 12.4(11)MD7 • 12.4(11)MD8 • 12.4(11)MD9 • 12.4(11)MD10

Table 4 Supported IOS Releases for mSEF Devices (continued)

Device	IOS Release
CSG2 (continued)	Supervisor Module: <ul style="list-style-type: none"> • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2 • 12.2(33)SRD3 • 12.2(33)SRD4 • 12.2(33)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S • 15.0(1)S1 • 15.1(1)S
HA	HA 5.x: <ul style="list-style-type: none"> • 12.4(22)YD • 12.4(22)YD1 • 12.4(22)YD2 • 12.4(22)YD3 HA 4.x: <ul style="list-style-type: none"> • 12.4(15)XM • 12.4(15)XM1 • 12.4(15)XM2 • 12.4(15)XM3 Supervisor Module: <ul style="list-style-type: none"> • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2 • 12.2(33)SRD3 • 12.2(33)SRD4 • 12.2(33)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S1 • 15.0(1)S • 15.1(1)S

Table 4 **Supported IOS Releases for mSEF Devices (continued)**

Device	IOS Release
BWG	12.4(15)XL2 (BWG version 1.1) 12.4(15)XL3 (BWG version 1.2) 12.4(15)XL4 (BWG version 1.3) 12.4(15)XL5 (BWG version 1.4) 12.4(24)YG (BWG version 2.0) 12.4(24)YG1 (BWG version 2.1) Supervisor Module: <ul style="list-style-type: none"> • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2 • 12.2(33)SRD3 • 12.2(33)SRD4 • 12.2(33)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S • 15.0(1)S1 • 15.1(1)S

Table 4 **Supported IOS Releases for mSEF Devices (continued)**

Device	IOS Release
PDSN	PDSN 5.2 <ul style="list-style-type: none"> • 12.4(22)XR4 PDSN 5.1: <ul style="list-style-type: none"> • 12.4(22)XR1 • 12.4(22)XR2 • 12.4(22)XR3 Supervisor Module: <ul style="list-style-type: none"> • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2 • 12.2(33)SRD3 • 12.2(33)SRD4 • 12.2(33)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S • 15.0(1)S1 • 15.1(1)S
PCRF	Cisco Policy Manager (PCRF): <ul style="list-style-type: none"> • 2.0

Table 4 **Supported IOS Releases for mSEF Devices (continued)**

Device	IOS Release
PDNGW	Supervisor Module: <ul style="list-style-type: none"> • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2 • 12.2(33)SRD3 • 12.2(33)SRD4 • 12.2(33)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S • 15.0(1)S1 • 15.1(1)S LTE R1: <ul style="list-style-type: none"> • 12.4(24)T3a LTE R1.2: <ul style="list-style-type: none"> • 12.4(24)T3b LTE R1.3: <ul style="list-style-type: none"> • 12.4(24)T3c

Table 4 Supported IOS Releases for mSEF Devices (continued)

Device	IOS Release
SGW	Supervisor Module: <ul style="list-style-type: none"> • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2 • 12.2(33)SRD3 • 12.2(33)SRD4 • 12.2(33)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S • 15.0(1)S1 • 15.1(1)S LTE R1: <ul style="list-style-type: none"> • 12.4(24)T3a LTE R1.2: <ul style="list-style-type: none"> • 12.4(24)T3b LTE R1.3: <ul style="list-style-type: none"> • 12.4(24)T3c
SPGW	Supervisor Module: <ul style="list-style-type: none"> • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2 • 12.2(33)SRD3 • 12.2(33)SRD4 • 12.2(33)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S • 15.0(1)S1 • 15.1(1)S LTE R2.0: <ul style="list-style-type: none"> • 12.4(24)T4a

Unsupported IOS Releases

The MWTM no longer supports the IOS releases listed in [Table 4](#):

Unsupported IOS Releases in MWTM 6.1.6

ITP			mSEF				
7600	Other	IPRAN	GGSN	CSG1	CSG2	HA	BWG
12.2(18) IXA	12.2(4)MB4	12.4(9)MR	GGSN 6	N/A	12.4(11) MD	12.2(33)SRC1	12.4(15) XL1 (BWG version 1.0)
12.2(18) IXB	12.2(4)MB5	12.4(11)MR	12.4(2)XB		12.4(11) MD1	12.2(33)SRC2	12.2(33)SRC1
12.2(18) IXB1	12.2(4)MB6	12.4(12)MR	12.4(2) XB1		12.4(11) MD2	12.2(33)SRC3	12.2(33)SRC2
12.2(18) IXB2	12.2(4)MB7	12.4(12)MR1	12.4(2) XB2		12.4(24) MD (CSG2 R4)	12.2(33)SRC4	12.2(33)SRC3
12.2(18) IXC	12.2(4)MB8	12.2(33) SRB	12.4(2) XB3		12.2(33)SRC1	12.2(33)SRC5	12.2(33)SRC4
12.2(18) IXD	12.2(4)MB9	12.2(33) SRB1	12.4(2) XB4		12.2(33)SRC2	12.2(33)SRC6	12.2(33)SRC5
12.2(18) IXD1	12.2(4)MB9a	12.2(33) SRB2	12.4(2) XB5		12.2(33)SRC3		12.2(33)SRC6
12.2(18) IXE	12.2(4)MB10	12.2(33) SRB3	12.4(2) XB6		12.2(33)SRC4		
12.2(18) IXF	12.2(4)MB11	12.2(33) SRB4	GGSN 7		12.2(33)SRC5		
12.2(18) IXF1	12.2(18)SW	12.2(33) SRB5	12.4(9)XG		12.2(33)SRC6		
12.2(18) IXG	12.2(19)SW	12.2(33) SRB6	12.4(9) XG1				
12.2(18) IXH	12.2(20)SW	12.2(33) SRB7	12.2(33)SRC1				
	12.2(21)SW	12.2(33)SRC2	12.2(33)SRC2				
	12.2(21)SW1	12.2(33)SRC3	12.2(33)SRC3				
	12.2(23)SW	12.2(33)SRC4	12.2(33)SRC4				
	12.2(23)SW1	12.2(33)SRC5	12.2(33)SRC5				
	12.2(25)SW	12.2(33)SRC6	12.2(33)SRC6				
	12.2(25)SW1						
	12.2(25)SW2						
	12.2(25)SW3						
	12.2(25)SW4						
	12.4(11)SW						
	12.4(11)SW1						
	12.4(11)SW2						

Table 5 *Unsupported IOS Releases in MWTM 6.1.6(contd)*

PDSN	PDNGW	SGW	PCRF
12.2(33)SRC1	12.2(33)SRC1	12.2(33)SRC1	
12.2(33)SRC2	12.2(33)SRC2	12.2(33)SRC2	
12.2(33)SRC3	12.2(33)SRC3	12.2(33)SRC3	
12.2(33)SRC4	12.2(33)SRC4	12.2(33)SRC4	
12.2(33)SRC5	12.2(33)SRC5	12.2(33)SRC5	
12.2(33)SRC6	12.2(33)SRC6	12.2(33)SRC6	

Limitations and Restrictions

This section describes limitations and restrictions that are associated with the MWTM:

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- [SSH-Enabled Nodes](#), page 17
- [INSTANCE_NUMBER on Single-Instance ITP](#), page 18
- [Multiprocessor Multithread Vendor Exception](#), page 18
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Provisioning Timeout

When using the MWTM provisioning feature to modify the management interface, sometimes the operation fails with this message:

```
No prompt response
```

This response can occur when changing the *duplex* or *speed* attributes for the Ethernet interface. The response can also occur for other interface attributes that affect IP connectivity between the MWTM and the device.

The default setting for a provisioning operation timeout is 50 seconds. As a workaround, the system administrator can increase the TGS_OP_TIMEOUT attribute in the *System.properties* file to a higher value. You must restart the MWTM server for this change to take effect.

SSH-Enabled Nodes

The MWTM Node > Home Page right-click menu option does not work correctly for the following SSH-enabled IP Transfer Point (ITP) nodes:

- Cisco 2600
- Cisco 7200
- Cisco 7300
- Cisco 7500

- Cisco 7600

The browser launches, as expected, but the user is not prompted for login information.



Note

This limitation exists for any ITP node running the 12.2(x) IOS with SSH enabled.

INSTANCE_NUMBER on Single-Instance ITP

Symptom If a command with INSTANCE_NUMBER is included in the *UserCommands.ts* file, the instance number will appear on all nodes in the GUI. If you run this command on a node that does not have multi-instance enabled, it fails.

Workaround If you have a network with both single-instance and multi-instance nodes, you must configure a separate set of troubleshooting commands for each node type in the *UserCommands.ts* file. Do this by grouping the commands for each type under a separate category.

Multiprocessor Multithread Vendor Exception

Sometimes when using the MWTM client on a Solaris multi-processor computer, an exception occurs when the topology window is open and you are manipulating views. The workaround is to close the topology window, then reopen it.

External SSH Client Use

If you enable the MWTM terminal proxy (**mwtm termproxy**) and use an external SSH terminal client to connect to a device, you might receive a warning message indicating a man-in-the-middle attack. This warning occurs because the MWTM server is operating as an SSH proxy to the device. In this scenario, ignore any warning messages indicating a man-in-the-middle attack. These warnings do not occur if you disable the MWTM terminal proxy or if you use the SSH terminal included with the MWTM.

SSH and Telnet Terminal

The SSH and Telnet terminals that are included with the MWTM provide basic terminal functionality. They do not support non-English character sets or the UNIX curses library (for example, colors). If these, or other, additional terminal functions are required, you can configure the MWTM to use an external SSH or Telnet program.

Tooltip Text Truncated

The Firefox 2 browser truncates tool tips that contain long text strings (see Firefox bug 218223). The MWTM contains only a few tool tips that exhibit this problem. The problem is resolved in Firefox 3. The problem does not occur when using the Internet Explorer (IE) browser.

Credentials for Nodes with Multiple IP Address

Credentials for a node are associated with a unique IP address. If a node has more than one accessible IP address, functions that require credentials might not resolve to a credential based on the selected IP address, and the requested function would fail. The MWTM functions that require credentials include:

- Discovery of ONS and RAN_SVC nodes
- Troubleshooting
- Provisioning
- Route, MLR Address, and Global Title Translation (GTT) table deployment

To work around this limitation, specify the credentials for all accessible IP addresses for a node.

Unprintable Characters

CSCse81393

In various GUI and web pages, simple text fields might contain unprintable characters. An example is the Model Name PID field for a RAN service (RAN_SVC) card in an ONS chassis. This is a cosmetic problem and does not affect functionality.

Symbol Style and Line Style Preferences

CSCsg83861

The preferences dialog box of the MWTM client interface allows you to customize the way that data series appear in charts. You can specify series color, line style, and symbol style. However, symbol style and line style preferences do not work when displaying real-time charts for MSU rates and for RAN backhauls and shorthauls.

Java Exception

CSCsh15638

The following exception with corresponding stacktrace can occur. The MWTM captures this exception in the *sgmConsoleLog.txt* file:

```
java.net.SocketException: Broken pipe
```

This exception can occur when users access the MWTM web interface and frequently abort connections while the server is under heavy load (for example, during discovery). Clicking the **Stop** button on the web browser or navigating to a different web page before the current page finishes loading can cause this exception to occur.



Note The root cause of this condition is an internal bug in the Tomcat web application that ships with this release of the MWTM.

You can safely ignore these log messages.

Avoid Colon (:) in ITP Object Names

CSCsh58070

The following error messages may appear when performing these operations:

Operation	Error Message
Generating link report by using the <i>sgmLinkStats.sh</i> script	sgmgawk: cmd. line:45: (FILENAME=- FNR=???) fatal: division by zero
Attempting to import link and linkset report data	ERROR 38000: The exception 'java.sql.SQLException: Invalid character string format for type SMALLINT.' was thrown while evaluating an expression.
Using the ITP route table deployment function	Invalid Linkset in Route Table: [??]

These error messages occur when ITP linkset, AS, and ASP names contain a colon (:). To prevent these errors, do not use the colon (:) in ITP linkset, AS, and ASP names.



Note

In general, the MWTM does not support ITP AS, ASP, or linkset names that contain special characters, such as: !@#\$%^&*()+=[]{},'.\:"<>?!|

The supported characters in ITP AS, ASP, and linkset names are: [a-z], [A-Z], [0-9], - and _.

Unprintable Characters in GUI

On some GUI windows and web pages simple text fields might contain unprintable characters. An example is the Model Name PID field for a RAN service (RAN_SVC) card in an ONS chassis. This might occur on some RAN_SVC cards in an ONS chassis.

Appearance of MSU Rates Real-Time Charts

The preferences dialog box of the MWTM client interface allows you to customize the way that data series appear in charts. You can specify series color, line style, and symbol style. However, symbol style and line style preferences do not work when displaying real-time charts for MSU rates and for RAN backhauls and shorthauls.

Provisioning Problem Due to Credentials

After switching the SNMP IP address, provisioning stops working due to credentials. Credentials for a node are associated with a unique IP address. If a node has more than one accessible IP address, functions that require credentials might not resolve to a credential based on the selected IP address, and the requested function would fail. The MWTM functions that require credentials include:

- Discovery of ONS and RAN_SVC nodes
- Troubleshooting
- Provisioning

- Route and Global Title Translation (GTT) table deployment

This might occur with nodes with multiple, accessible IP addresses with credentials set for a subset of those IP addresses. To work around this limitation, specify credentials for all accessible IP addresses for a node.

Special Characters in ITP AS/ASP/Linkset Names in Reports

The following error messages might appear when performing these operations:

Operation	Error Message
Generating link report by using the <i>sgmLinkStats.sh</i> script	sgmgawk: cmd. line:45: (FILENAME=- FNR=???) fatal: division by zero
Attempting to import link and linkset report data	ERROR 38000: The exception 'java.sql.SQLException: Invalid character string format for type SMALLINT.' was thrown while evaluating an expression.
Using the ITP route table deployment function	Invalid Linkset in Route Table: [???

The error messages occur when ITP linkset, AS, and ASP names contain a colon (:). To work around this problem, remove the colon (:) from ITP linkset, AS, and ASP names.

Using MWTM With the RealPlayer Plugin Installed

If you use a computer that has the RealPlayer plugin installed, the Provision launch window will not work properly. When you change types on the Provision launch window, the provisioned item list will not refresh.

This is a known issue with the RealPlayer plugin. This issue occurs on both Internet Explorer and Firefox browsers.

Disable the RealPlayer plugin to use the Provision launch window. If you use Internet Explorer, you might need to reboot your computer after disabling the plugin. If you use Firefox, you might need to restart your browser after disabling the plugin.

Online Help System

The online help system is updated only during major release updates. New features added in patch releases (for example, 6.0.4) are not contained in the online help system. Instead, new features are documented in the release notes for the patch release.

APN and GTP Reports Disabled for GGSN on Patch Upgrade

CSCtj21269

If you enable GGSN reporting in MWTM 6.1.1 and then upgrade to MWTM 6.1.2 and apply the latest service pack, then APN reports are disabled. You may have to re-enable the APN reports even if they were previously enabled.

To enable APN reports, execute `mwtm statreps apn` command or from the web interface select “Reports” and enable APN.

Historical Statistics Collection During Upgrade

When you upgrade to MWTM 6.1.6 from an earlier version, there may be a temporary stop in the collection of data. This could result in a time gap shown in historical reports for shorter interval reports (For example, 15 minute reports). No intervention is required for collection to resume.

Important Notes

This section contains important notes about RAN Backhaul Utilization.

RAN Backhaul Utilization

When the backhaul utilization for transmit traffic exceeds 100%, the likely cause is oversubscription of the shorthaul links that constitute the backhaul. The backhaul utilization is the amount of traffic that the system attempted to send, not the amount that was actually sent. If utilization is greater than 100%, you should see queue drops or other errors during the same time period. A backhaul utilization of greater than 100% is possible for a heavily loaded link with some occasional oversubscription.

New Features and Resolved MWTM Caveats

The following new features and bugs fixes have been fixed in MWTM 6.1.6:

Bug ID	Description
CSCtl95503	IPRAN - REP Provisioning fails in some Edge config scenarios
CSCtn01934	IPRAN - PTP- mode should be same in both Vlans
CSCtn08047	Ack time node time zone column does not sort correctly
CSCtn22151	IPRAN - Provision - New Ranges For PolicyMap shape average in SRE3
CSCtn23877	LTE - Intermittent Writing Failures Of CPUStats CSV Files On PDNGW/SGW
CSCtn41280	Inventory Import Tab Should Be Only Available to User Levels 4/5
CSCtn41895	IPRAN-Provision DEVICE ERROR in ADDRESSFAMILY
CSCtn43221	OSPF Trap Index Warnings In Message Log
CSCtn46754	IPRAN-Provision Device ERROR IN GigabitEthernetSubInf
CSCtn58244	Client Details should not be displayed other than System Administrator

Bug ID	Description
CSCtn83886	Inventory - ChassisTab/CSV Loses NodeLink If Primary SNMP IPAddr Changes
CSCtn86481	IPRAN-Provision Null pointer Exception in Interface T1
CSCtn91799	Reports - CSV Generation Stops After Daylight Savings Time Change
CSCtn91801	Reports - Duplicate Rows Written To CSV Files
CSCtn92972	IPRAN - Provision - Support Address family vpv4 in BGP
CSCto82681	EPC 2.0 Traps - Merging PDNGW/SGW traps with SPGW
CSCto90316	MWTM: CLI badlogindisable/badloginalarm not work for remote auth
CSCto99044	GUI - Syslog Tab not displayed for PDNGW/SGW/SPGW and few others
CSCto99063	Provisioning - Unable to config dhcp-proxy-client without rapid commit
CSCtq04600	LTE - [prov] Need to support SPGW command in GPRS charging Profile
CSCtq11998	JavaClient - Remove Large View Size Warning
CSCtq12078	Alarms - Mandatory Node Name Paramater to mwtmAlarms.sh
CSCtq17471	Web Client:-Cold starts field of NSO tab not displaying proper value
CSCtq20945	LTE - Provisioning Issues in VPDN configuration
CSCtq28531	Update OS Info and README files specific to latest release
CSCtq32227	GGSN - Provisioning - Radius_Server_NE - Validating password field
CSCtq32234	PGW & SGW - Invalid Range in GPRS_QoS_CAC_Policy - Max Params
CSCtq32307	GGSN R(10) - Provisioning - DFP-GPRS / GPRS_SLB NE profiles not loading
CSCtq32352	GGSN R(10) - Provisioning - CSG_Group NE exception during provisioning
CSCtq32379	GGSN R(10) - Provisioning - GPRS_SLB NE - If Next Hop empty disable VRF
CSCtq36959	LTE - [Prov] GPRS Charging group config fails when GTP is configured
CSCtq37413	SPGW: Populating proper data in EPC and GTPv2 reports of SPGW.
CSCtq37432	Reports: Report Duration field not working properly
CSCtq40062	PGW & SGW - Validation missing for TBCD format
CSCtq40136	"SPGW and 15 minute report" option not available in CLI
CSCtq40169	WebGUI: Events/Alarms display previous row node value in place of "None"

Bug ID	Description
CSCtq41968	System - "mwtm getliveifs" not working on 3GPP reports.
CSCtq46089	GGSN 10.0 / CSG2 R6 - Validation Error
CSCtq46114	GGSN 10.0 - CSG_Group Deletion Error
CSCti72995	ITP - Support Group Deployment Of GTT Tables

Open MWTM Caveats

This section describes caveats that exist in the MWTM 6.1.6 software.

- CSCsg92892

Symptom When provisioning ITP nodes from the Provision tab of the web interface, some provisioning operations might fail on the node with these symptoms and conditions:

Provisioning Action	Symptom	Condition
Changing the media type for FastEthernet or GigabitEthernet interface	Invalid input detected	FastEthernet or GigabitEthernet on the node does not support the media type configuration option, but the user specified a media type in the MWTM provisioning request.
Changing speed for FastEthernet or GigabitEthernet interface	Invalid input detected	FastEthernet or GigabitEthernet on the node does not support the speed configuration option, but the user specified the speed in the MWTM provisioning request.
Configuring MTP3 User Adaptation (M3UA) or SCCP User Adaptation (SUA) offload, or Local Peer offload	Error: at least one address must reside on slot xx	The user specified an IP address that does not exist for the specified card slot.
Configuring M3UA or SUA offload, or Local Peer offload	Error: xxx is already offloaded to this linecard slot=xx	The user specified a target card slot that is already in use by another M3UA or SUA offload, or Local Peer offload. Note The ITP does not allow mixed types between M3UA or SUA offload, and Local Peer offload.
Configuring the line priority for the clock source line option on the Cisco 2600 T1/E1 controller	% Invalid input detected at '^' marker. The '^' marker points to the line priority: <i>primary</i> or <i>secondary</i> .	While configuring the clock source line priority option on the T1/E1 controller, the user specified the <i>primary</i> or <i>secondary</i> option on the line, but the WAN Interface Card (WIC) card has only one port, and does not support the line priority option.
Configuring the secondary line priority for the clock source line option on the Cisco 7xxx ITP T1/E1 controller	% Invalid input detected at '^' marker. The '^' marker points to the secondary line priority: <i>primary</i> or <i>secondary</i> .	When configuring the clock source secondary line priority option on the T1/E1 controller, the user specified a number that is greater than the supported range on the device. Although the MWTM allows values 1-72, some cards only support 1-8 or 1-16.

Workaround None. The user must know the ITP card information and specify correct values in the provisioning request.

- CSCsz16365

Symptom When provisioning IP-RAN nodes from the Provision tab of the web interface, some provisioning operations might fail on the node with these symptoms and conditions:

Provisioning Action	Symptom	Condition
Provisioning Sonet Serial interface controller SONET <x> au-4 <x> tug-3 <x> tug-2 <x> e1 <x> channel-group <x> timeslots <x>	invalid input detected at '^' marker	When a Sonet Serial interface is created on SPA-1CHOC3-CE-ATM SPA. This SPA is primarily used to configure Sonet CEM Group, but user creates Sonet Serial interface in MWTM provision request.
Provisioning Sonet CEM Group interface controller SONET <x> au-4 <x> tug-3 <x> tug-2 <x> e1 <x> cem-group <x> timeslots <x>	invalid input detected at '^' marker	When a Sonet CEM Group is created on SPA-1XCHOC12/DS0 and SPA-1XCHSTM1/OC3. The SPA's are primarily used to configure Sonet Serial interfaces, but user creates Sonet CEM Group in MWTM provision request.
Changing framing on Sonet Interface controller SONET <x> framing sdh	invalid input detected at '^' marker	When changing framing on the Sonet interface from 'sonet' to 'sdh' option on SPA-1XCHOC12/DS0 SPA. This SPA is primarily used only in the STS mode but user is changing to the AU-4 mode in MWTM provision request.
Provisioning speed for Gigabit Ethernet interfaces interface GigabitEthernet<x> speed nonnegotiate	invalid input detected at '^' marker	When configuring the speed as 'nonnegotiate' on Gigabit Ethernet interfaces. This speed option applies only for DS3 interfaces but user is configuring on non-DS3 Gigabit Ethernet interfaces in MWTM provision request.

Provisioning Action	Symptom	Condition
Provisioning cablelength option for T1 controllers controller T1 <x> cablelength short <x>	invalid input detected at '^' marker	When configuring cablelength 'short' on SPA-8XCHT1/E1. SPA-8XCHT1/E1 is used mainly for MLPPP bachhaul, but user is configuring the cablelength options of SPA-24CHT1-CE-ATM used for shorthaul PWE3 xconnects in MWTM provision request.
Provisioning ATM Interface for a controller, “mode atm aim <x>”	Might succeed but no ATM interface is created on the device	When configuring more than allowed ATM interfaces on 1941 and 3800 device types. The count of ATM's depend on the AIM card used like AIM8 or AIM4 card, but user is creating more than allowed ATM's in MWTM provision request.

Workaround None. The user must know the card/slot/module type information and submit provision requests based on the capabilities of the card.

- CSCsz56999

Symptom When provisioning IPRAN nodes from the Provision tab of the web interface, some provisioning operations might fail on the node with these symptoms and conditions:

Provisioning Action	Symptom	Condition
Creating 76xx Serial interface “channel-group <x> timeslots <x>”	invalid input detected	When serial interface is created on SPA-24CHT1-CE-ATM SPA. This SPA is primarily used to configure Circuit Emulation Functions [CESoP and SAToP], but user creates channelized serial interfaces in MWTM provision request.
Provisioning ATM Framing for 76xx ATM interfaces “atm framing <x>”	Invalid input detected	ATM Framing option can be provisioned only on SPA-2XOC3-ATM or SPA-4XOC3-ATM SPA, but user sets ATM Framing option on SPA-24CHT1-CE-ATM in MWTM provision request.
Enabling PTP for 2941 Vlan interfaces “ptp enable” option	Error: local interface is down, please make sure to turn it on	When configuring PTP, the GigabitEthernet interface port associated with the Vlan is not up and user selects this Vlan to enable PTP.
Configuring speed for 2941 Gigabit Ethernet interfaces “speed <x>”	invalid input detected at '^' marker	When configuring speed option for GigabitEthernet ports 0 and 1 and these ports do not support the speed CLI.

Provisioning Action	Symptom	Condition
Configuring GSM SH for 1941s, 3825a on non-motherboard cards “encapsulation gsm-abis”	Error in encaps setup. Encapsulation not changed	When configuring GSM on Serial interface on non-zero slot number as these slots do not support GSM encapsulation.
Configuring multiple Serial Interfaces per WIC, “channel-group <x> timeslots <x>”	Channel-groups per port limit exceeded	When configuring more than two Serial controller channels per WIC on 1941 or more than four Serials per port on 2941 devices.

Workaround None. The user must know the card type information and submit provision requests based on the capabilities of the card.

- CSCsu02993

Symptom When IOS running-config contains the following characters in the object name, MWTM web user interface may exhibit unexpected behavior:

Double quote (“)

Less than (<)

Conditions When IOS running-config contains following characters in the object name:

Double quote (“)

Less than (<)

Additional MWTM provisioning or other functions may behave unexpectedly when IOS running-config contains following characters:

!,#,\$,%,&,*,(,),',+,,=, and ,

Workaround Remove special characters from IOS running-config.

- CSCtf51338

Symptom The MWTM web client is very slow or unresponsive when expanding the Default View node in the inventory tree.

Conditions Internet Explorer version 6 is being used as the web browser. The network latency between the web client and the MWTM server is very high. MWTM is being used to monitor a medium-sized or large network.

Workaround Use a different web browser such as Firefox or Internet Explorer 7 or later.

- CSCtf56323

Symptom When provisioning IPRAN interfaces with a VRF from the Provision tab of the web interface, provisioning operation might fail with “Incompatible with xconnect command on <x> - command rejected.” Similarly while provisioning a PWE3 Xconnect on IPRAN object, the provisioning operation might fail with “Incompatible with ip vrf command on <x> - command rejected.”

Conditions Both PWE3 Xconnect and VRF appear to be mutually exclusive on Parent-Child interfaces. On some interfaces, if Parent has PWE3 Xconnect then child interface of the parent cannot add VRF and vice versa.

Workaround None. The user must gain knowledge about the parent-child interfaces and specify correct values in the provisioning request.

- CSCtf54835

Symptom When provisioning IPRAN Gigabit or Ten Gigabit Ethernet interfaces with a VRF from the Provision tab of the web interface, the provisioning operation might fail with “% Invalid input detected at '^' marker.”

Conditions Gigabit and Ten Gigabit Ethernet interfaces can be provisioned either with switchport or VRF. When the Ethernet interface is already set as switchport, the user is attempting to configure VRF in the MWTM provision request.

Workaround None. The user must have knowledge about the interfaces and specify correct values in the provisioning request.

Open Device Caveats

- CSCsz69451

The historical and real-time KPIs for the GGSN R9 from the CISCO-GGSN-EXT-MIB always have the value 0 due to an IOS defect in 12.4(22)YE.

The following realtime KPIs are impacted:

- GTP Throughput Upstream Bytes - cGgsnExtUpstreamByteCount
- GTP Throughput Downstream Bytes - cGgsnExtDownstreamByteCount
- GTP Throughput Upstream Packets - cGgsnExtUpstreamPktCount
- GTP Throughput Downstream Packets - cGgsnExtDownstreamPktCount
- Mobile Stations With Active PDP Contexts - cGgsnExtActivatedMs
- PDP PPP-Regen Interfaces Created - cGgsnExtGtpPppRegenCreatedIntfs
- Active PDP Contexts with Direct Tunnel - cGgsnExtGtpDtActivePDPs
- PDP Contexts Deleted without waiting for the SGSN - cGgsnExtNoWaitSgsnLocalDelPDPs
- PDP Contexts Deleted without sending to the SGSN - cGgsnExtNoReqSgsnLocalDelPDPs
- Update PDP Context Requests Sent - cGgsnExtSentPdpUpdateReqs

- Update PDP Context Responses Received - cGgsnExtRcvdSuccPdpUpdateResponses
- COA Messages Received - cGgsnExtRcvdCoaMsgs
- COA Messages Dropped - cGgsnExtDiscardedCoaMsgs
- COA QOS Updates Sent - cGgsnExtSentCoaUpdateReqs
- Error Indication Messages Sent - cGgsnExtSentErrorIndications
- Error Indication Messages Received - cGgsnExtRcvdErrorIndications
- Direct Tunnels Enabled - cGgsnExtTotalDtEnabled
- Error Indications for DT PDP Contexts - cGgsnExtRcvdDtPdpErrorIndications
- DT PDP Contexts Deleted due to Update Response - cGgsnExtTotalDtUpdFailDeletedPDPs

Related Documentation

Use this document in conjunction with the following documents:

- *User Guide for the Cisco Mobile Wireless Transport Manager 6.1.6*
http://www.cisco.com/en/US/products/ps6472/products_user_guide_list.html
- *Installation Guide for the Cisco Mobile Wireless Transport Manager 6.1.6*
http://www.cisco.com/en/US/products/ps6472/prod_installation_guides_list.html
- *OSS Integration Guide for the Cisco Mobile Wireless Transport Manager 6.1.6*
http://www.cisco.com/en/US/products/ps6472/products_programming_reference_guides_list.html
- *Supported IOS Releases for the Cisco Mobile Wireless Transport Manager and the Cisco Signaling Gateway Manager*
http://www.cisco.com/en/US/products/ps6472/products_device_support_tables_list.html

Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly *What's New* in Cisco Product Documentation, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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